

Yingna Su – CV

Postdoctoral Researcher
Harvard-Smithsonian Center for Astrophysics

Education:

B.S. Physics, 2001, Hebei Normal University
M.S. Astrophysics, 2004, Purple Mountain Observatory
Ph.D. Astrophysics, 2008, Purple Mountain Observatory
Predoctoral Fellow, 2005-2007, Harvard-Smithsonian Center for Astrophysics

Professional History:

2008 - current Postdoctoral Researcher, Harvard-Smithsonian Center for
Astrophysics

Work Experience: I have experience in multi-wavelength (e.g., UV, EUV, X-rays, H-alpha) data analysis and non-linear force-free field modeling. Research interests include solar flares, filaments and their eruptions, coronal mass ejections, and the associated magnetic field configuration. Mission involvement with *TRACE*, *Hinode*.

Professional Association and Awards:

2009-now Member of American Geophysical Union
2007-now Member of Solar Physics Division/AAS
2007-now Member of American Astronomical Society
2009 Excellent PhD Thesis of Chinese Academy of Sciences
2008 Excellent Award of the Director of Chinese Academy of Sciences
2006 The Solar Physics Division of the American Astronomical Society
Studentship Awards
2003-2004 Scholarship of the Director of Purple Mountain Observatory
2002-2003 Scholarship of the Director of Purple Mountain Observatory

First-author Publications in Refereed Journals:

Su Y. N., van Ballegoijen A. A., Schmieder B., Berlicki A., Guo, Y., Golub L., & Huang G. L. 2009, “Flare Energy Build-Up in a Decaying Active Region Near a Coronal Hole”, *Astrophys. J.*, submitted.

Su Y. N., van Ballegoijen A. A., Lites B. W., Deluca E. E., Golub L., Grigis P. C., Huang G. L., & Ji H. S. 2009, “Observations and Nonlinear Force-Free Field Modeling of Active Region 10953”, *Astrophys. J.*, 691, 105.

Su Y. N., Golub L., van Ballegoijen A. A., Deluca E. E., Reeves K. K., Sakao

T., Kano R., Narukage N., & Shibasaki K. 2007, “Evolution of the Sheared Magnetic Fields of Two X-class Flares Observed by *Hinode*/XRT”, PASJ, 59, S785.

Su Y. N., van Ballegoijen A. A., McCaughey J., Deluca E. E., Reeves K. K., & Golub L. 2007, “What Determines the Intensity of Solar Flare/CME Events”, Astrophys. J., 665, 1448.

Su Y. N., Golub L., & van Ballegoijen A. A. 2007, “A Statistical Study of Shear Motion of the Footpoints in Two-ribbon Flares”, Astrophys. J., 655, 606.

Su Y. N., Golub L., van Ballegoijen A. A., & Gros M. 2006, “Analysis of Magnetic Shear in an X17 Solar Flare on October 28, 2003”, Solar Phys., 236, 325.

Su Y. N., & Huang G. L. 2004, “Polarization of Loop-top and Footpoint Sources in Microwave Bursts”, Solar Phys., 219, 159.

Co-authored Publications in Refereed Journals:

Ning, Zongjun, Ding, M. D., Qiu, K. P., Li, H., **Su, Y. N.**, & Fang, C. 2008, “A complicated solar eruption event on 2003 October 26. Solar flare”, Astrophys. and Spa. Sci., 315, 45

Liu, R., Gilbert, H. R., Alexander, D., & **Su, Y. N.** 2007, “The Effect of Magnetic Reconnection and Writhing in a Partial Filament Eruption”, Astrophys. J., 680, 1508

Sakao, T., Kano, R., Narukage, N., Kotoku, J., Bando, T., Deluca, E. E., Lundquist, L., Tsuneta, S., Harra, L. K., Katsukawa, Y., Kubo, M., Hara, H., Matsuzaki, K., Shimojo, M., Bookbinder, J. A., Golub, L., Korreck, K. E., **Su, Y. N.**, Shibasaki, K., Shimizu, T., & Nakatani, I. 2007, Science, 318, 1585

Reznikova, V. E., Melnikov, V. F., **Su, Y. N.**, & Huang, G. L. 2007, “Pulsations of Microwave Flaring Emission at Low and High Frequencies”, Astronomy Reports, 51, 588

Huang, G. L., Zhou, A. H., **Su, Y. N.**, & Zhang, J. 2005, “Calculations of the Low-cutoff Energy of Non-thermal Electrons in Solar Microwave and Hard X-ray Bursts”, New Astronomy, 10, 219

Zhou, A. H., **Su, Y. N.**, & Huang, G. L. 2005, “Energetic Electrons in Loop

Top and Footpoint Microwave Sources”, *Solar Phys.*, 226, 327

Zhou A. H., **Su Y. N.**, & Huang G. L. 2004, “Effects of the Gyroresonance Absorption and self Absorption on the Gyrosynchrotron Radiation Spectrum”, *Chinese Physics letters*, 21, 2067

Conference Proceedings:

Su, Y. N., Golub, L., Van Ballegooijen, A., & Huang, G. L. 2006, “A Statistical Study of Shear Motion of EUV Footpoints in Two-ribbon Flares”, in V. Bothmer and A. A. Hady (eds.), *Proc. of the IAU Symposium 233, ‘Solar Activity and its Magnetic Origin’*, p. 409

Su, Y. N., & Huang, G. L. 2003, “Analysis of Loop-top and Foot-point Sources in Microwave Bursts”, in *Proc. of the IAU Symposium 219, ‘Stars as Suns: Activity, Evolution and Planets’*, p. 246

Su, Y. N., & Huang, G. L. 2003, “Analysis of Loop-top and Foot-point Sources in Microwave Bursts”, in A. Wilson (ed.), *Proc. of the International Solar Cycle Studies (ISCS) Symposium, ‘Solar variability as an input to the Earth’s environment’*, ESA SP-535, p. 695

Ning, Z. J., Fang, C., Ding, M. D., Yeh, C.-T., Li, H., **Su, Y. N.**, Zhang, Y., & Tan, C. M. 2005, “A CME and Related Phenomena on 2003 October 26”, in K. Dere, J. Wang, and Y. Yan. (eds.), *Proc. of the IAU Symposium 226, ‘Coronal and Stellar Mass Ejections’*, p. 123

Shao, C. W., Wang, M., Xie, R. X., Fu, Q. J., Liu, Y. Q., Tan, C. M., **Su, Y. N.**, & Ma, Y. 2005, “Characteristics of Solar Microwave Bursts Associated with CMEs: a Statistical Study”, in K. Dere, J. Wang, and Y. Yan. (eds.), *Proc. of the IAU Symposium 226, ‘Coronal and Stellar Mass Ejections’*, p. 129